

AIR CONDITIONING SYSTEMS AND VEHICLES

USING SUCH AIR CONDITIONING SYSTEMSABSTRACT OF THE DISCLOSURE

An air conditioning system for a vehicle including a first drive source, includes a compressor. The compressor includes a second drive source, and the compressor is driven by the first drive source or the second drive source, or a combination thereof. Moreover, the second drive source includes an electrical power supply. The air conditioning system also includes a controller for selecting the first drive source or the second drive source, or both, for driving the compressor. The controller also controls a rotational speed of the second drive source. Moreover, the air conditioning system also includes a voltmeter or an amp meter for detecting an amount of electrical power consumed by the second drive source. Specifically, when a predetermined condition is satisfied and an amount of electrical power consumed by the second drive source is greater than a first limit for the amount of electrical power which the second drive source may consume, the first limit increases to a second limit.